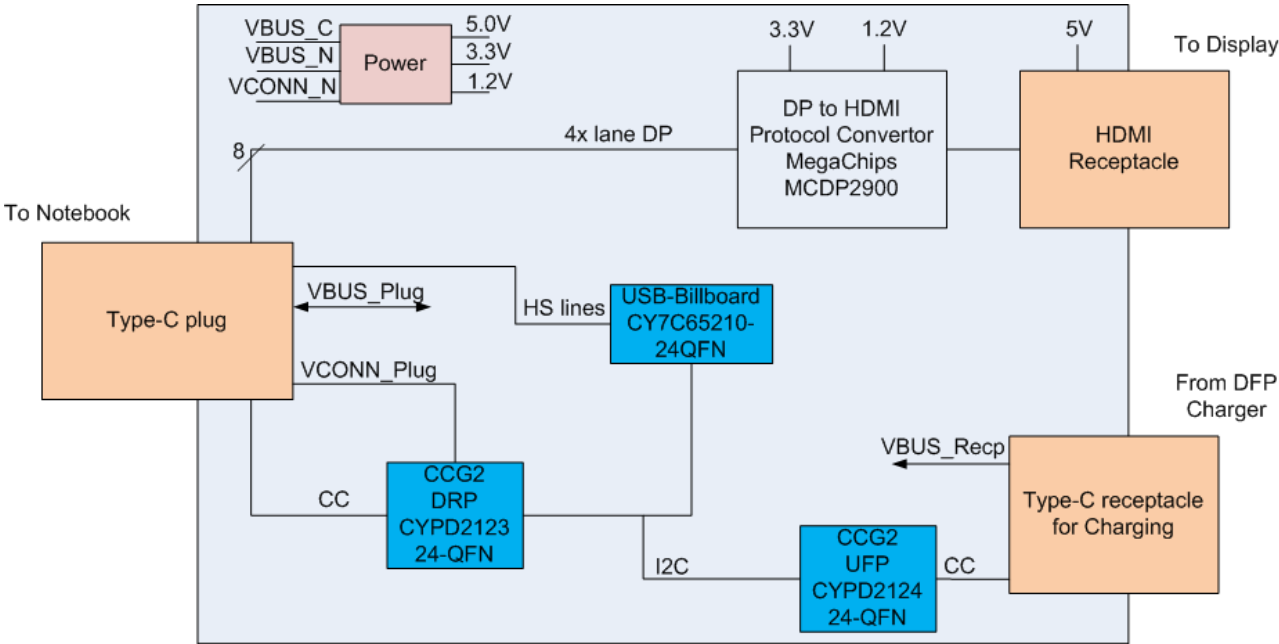


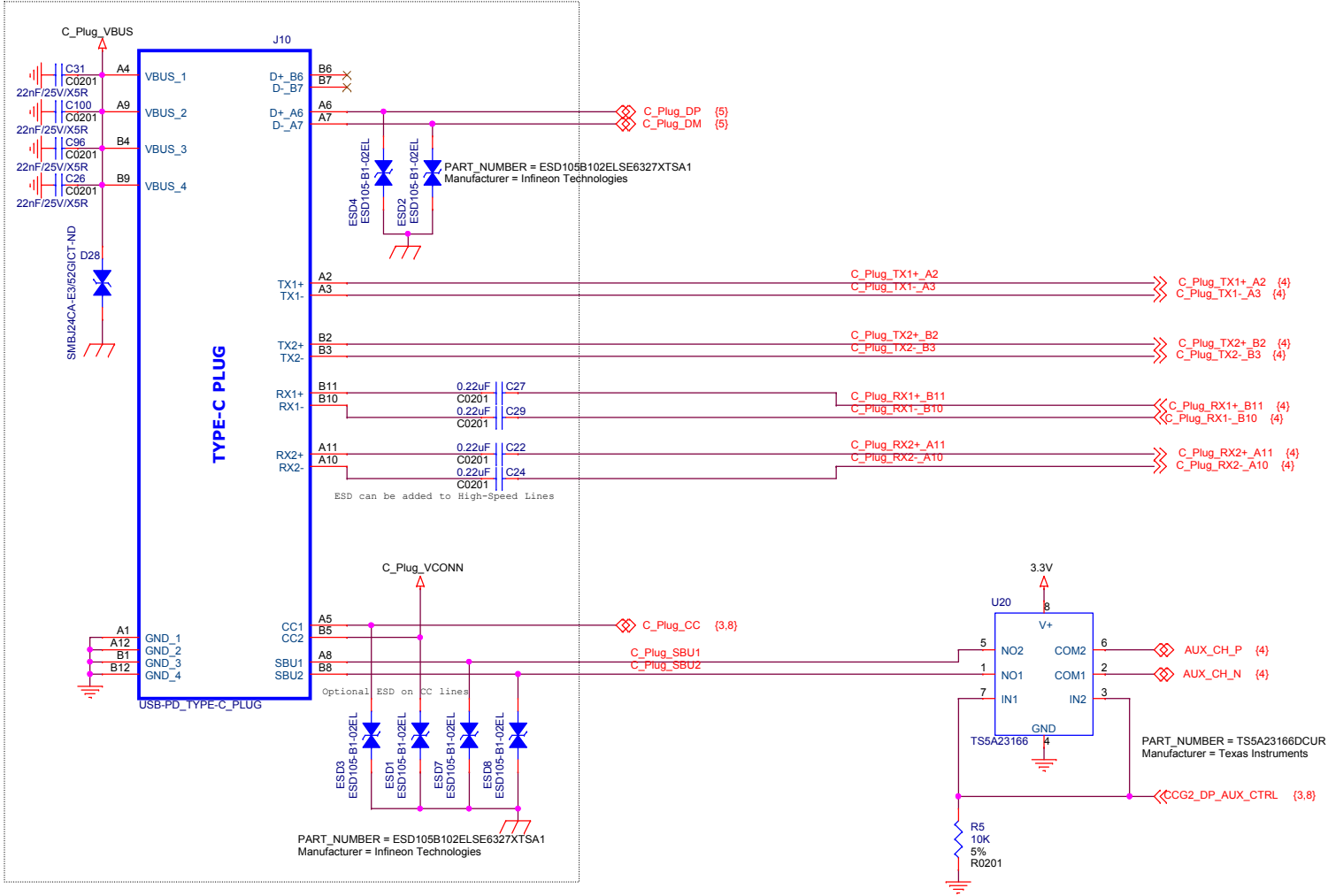
CCG2 USB Type-C Charge-Through Dongle with HDMI Reference Schematic

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Revision History		
Revision	Date	Revision Summary
*	05-12-2016	Initial Release

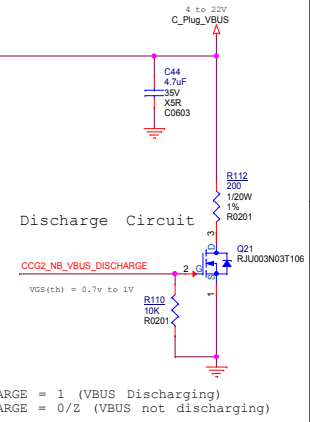
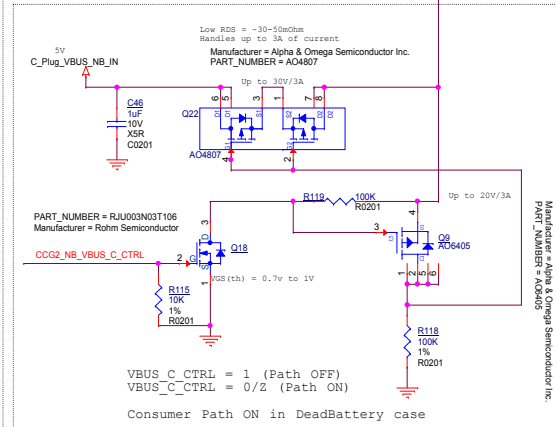
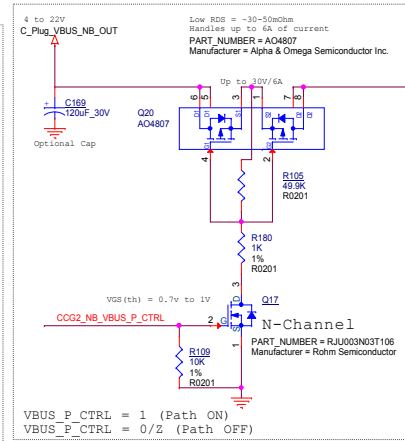
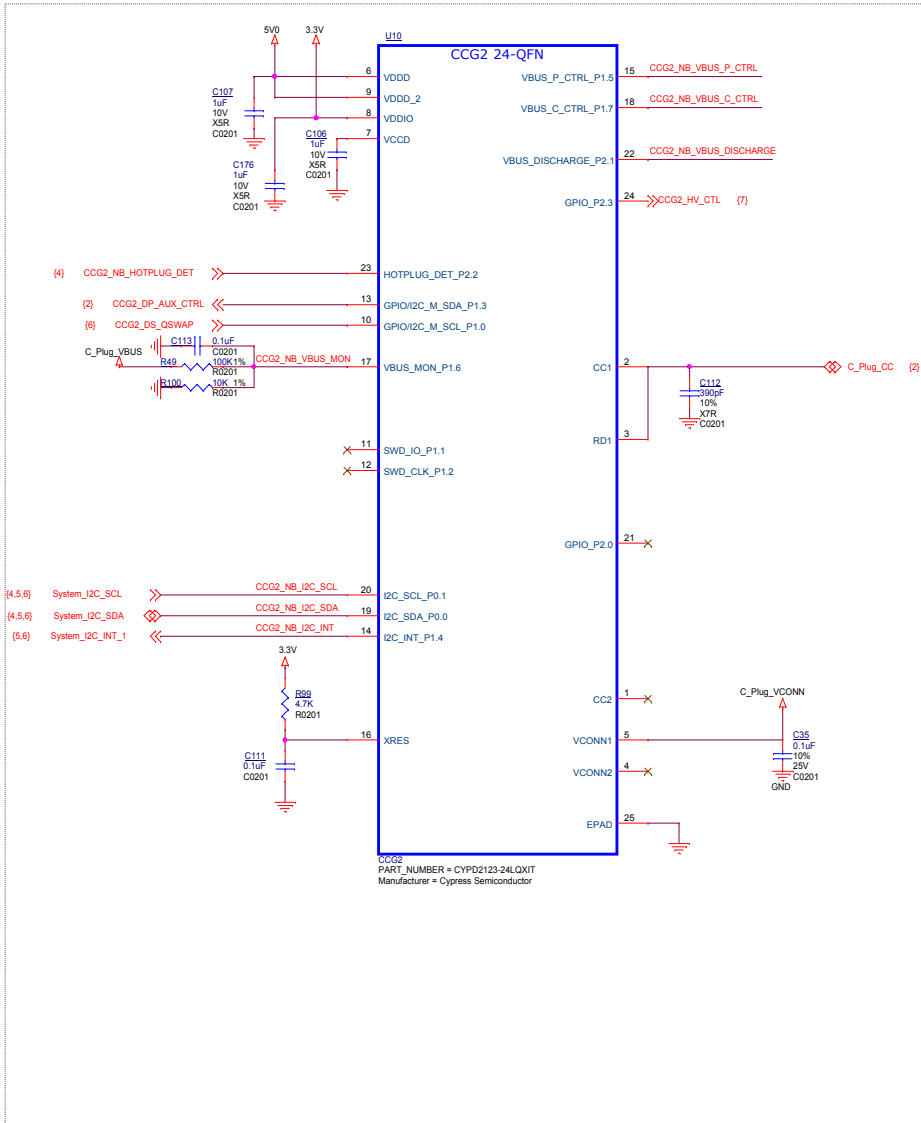


Type-C Plug



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CCG2 connected to NB

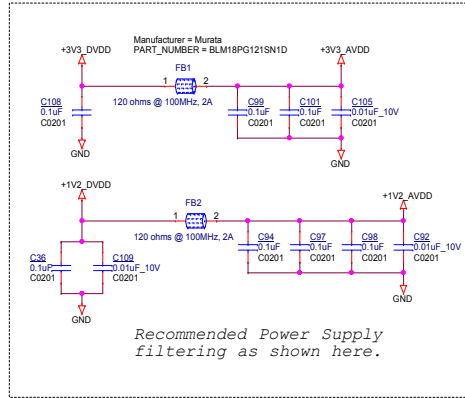


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TPS2553 limits the current to 100mA to ensure there is enough power in the system when the solution is powered via VCCORN only

The diagram shows the TPS2553 current limiter circuit. The device (U22) has the following connections:

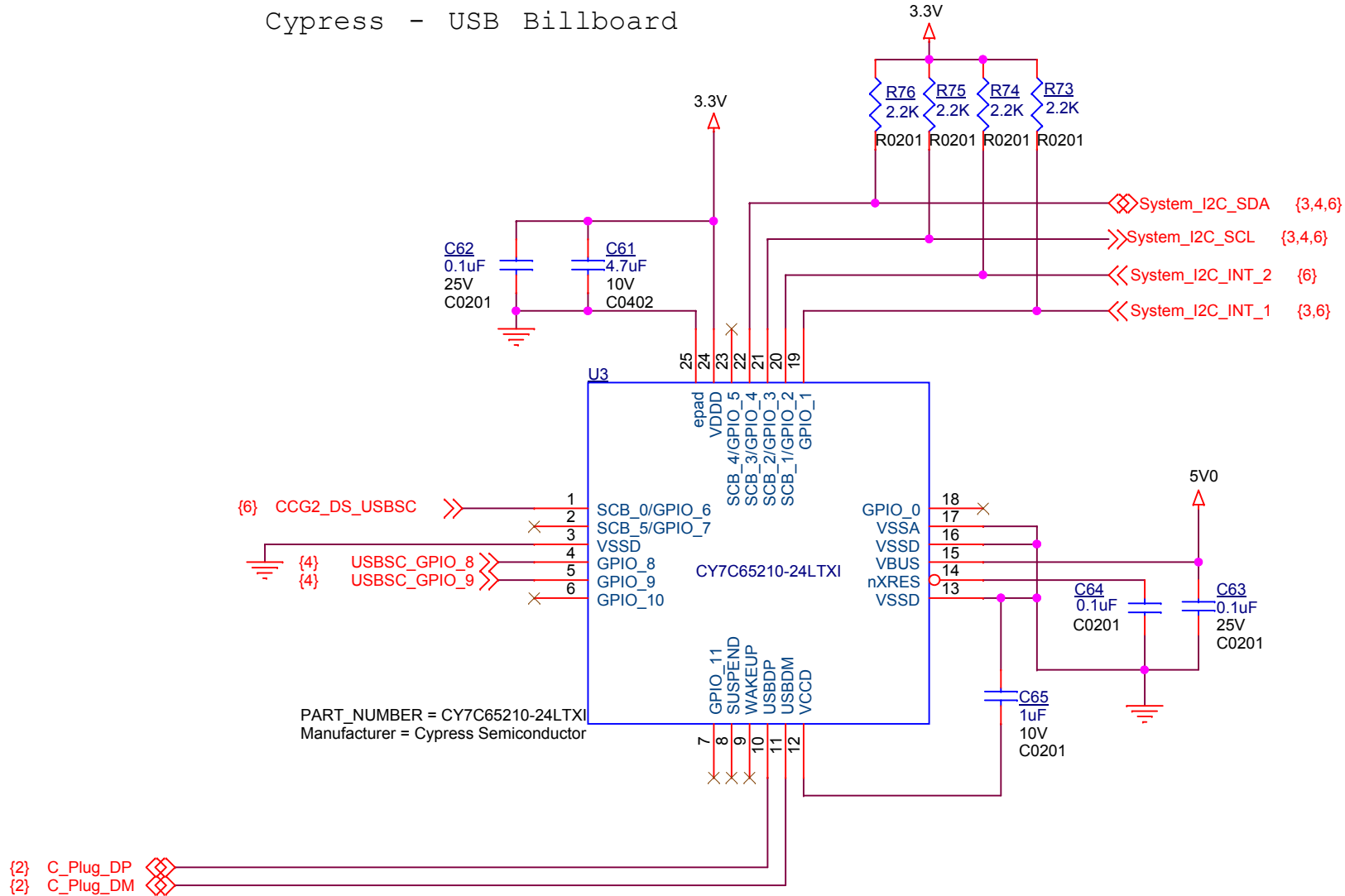
- Pin 1 (IN): Connected to a 100K resistor (R239) and a 0.1uF capacitor (C186), both leading to GND.
- Pin 2: Connected to GND.
- Pin 3 (EN): Connected to GND.
- Pin 4: Connected to GND.
- Pin 5 (ILIM): Connected to a 226K resistor (R240) leading to GND.
- Pin 6 (OUT): Connected to the output line.



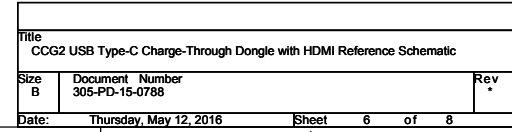
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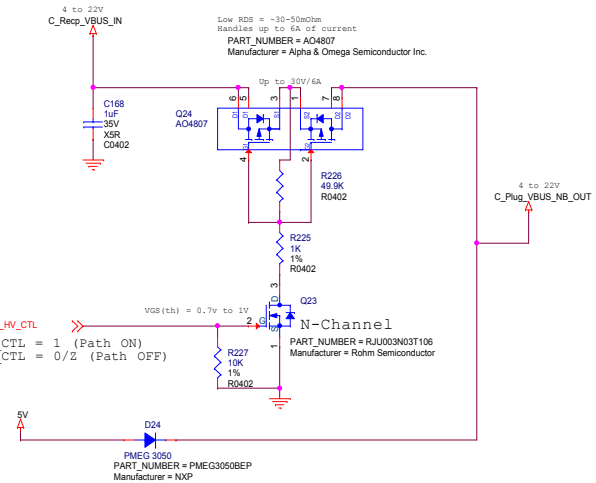
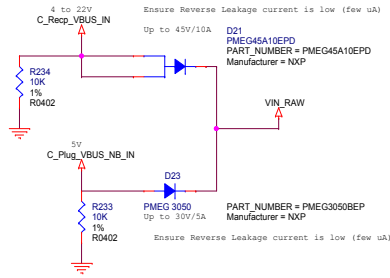
USB Billboard

Cypress - USB Billboard

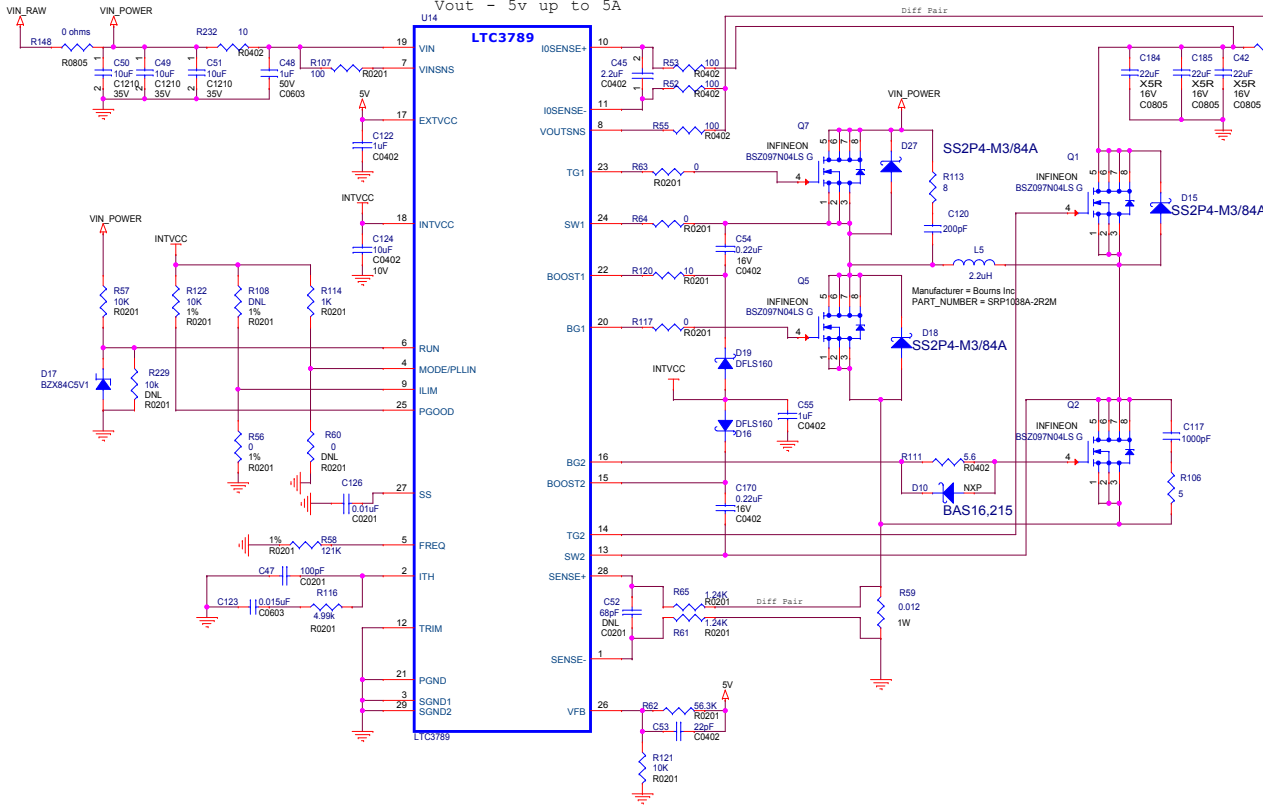


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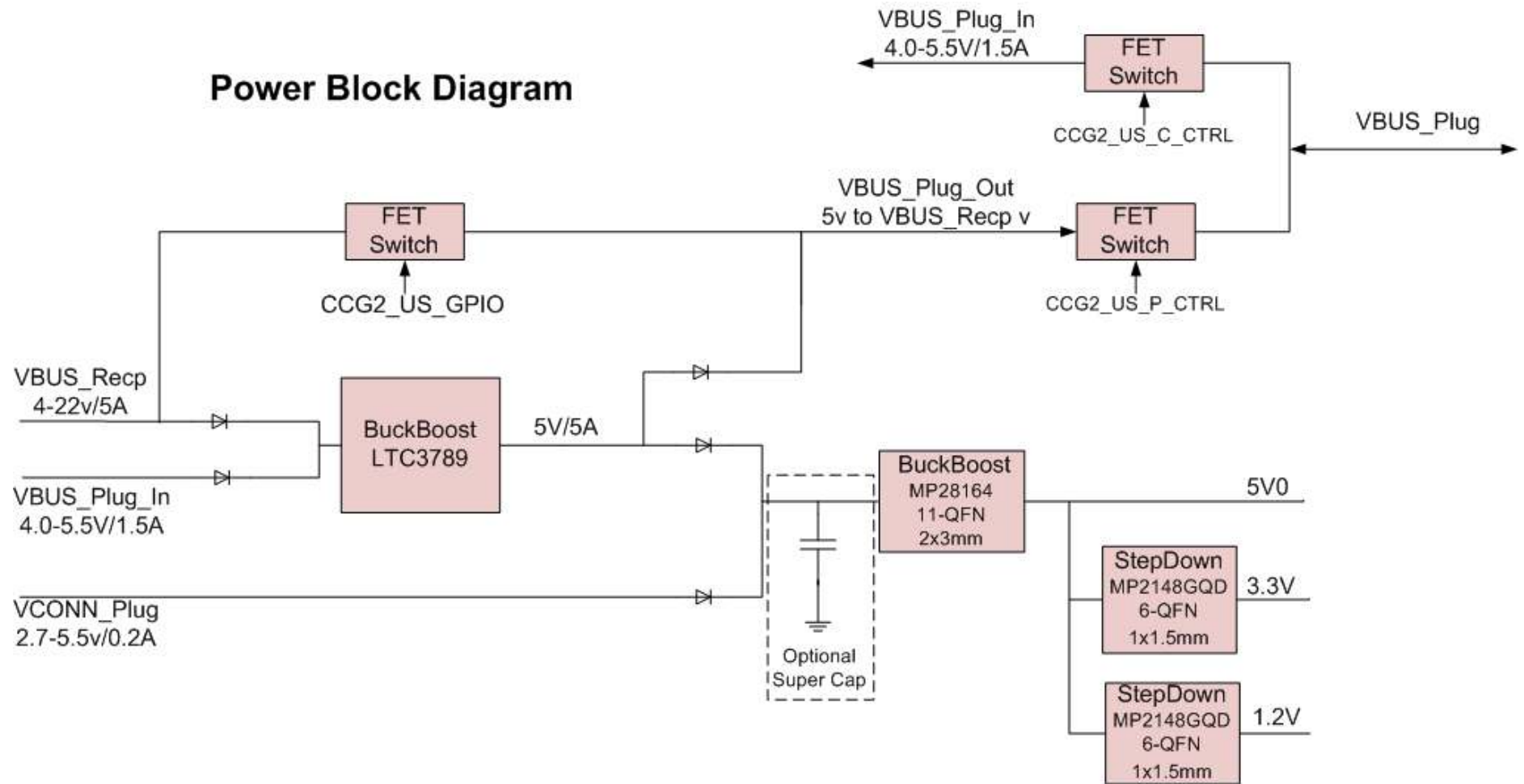
[illegible]



Buck-Boost
Vin - 4-22V up to 5A
Vout - 5v up to 5A



Power Block Diagram



Title
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